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CENTRAL INTELLIGENCE AGENCY

REPORT NO. [REDACTED]

INFORMATION REPORT

CD NO. 25X1A

COUNTRY Czechoslovakia

DATE DISTR. 20 July 1951

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ACQUIRED [REDACTED]

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INFO. [REDACTED]

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SUPPLEMENT TO
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1. Industrial research in Czechoslovakia is handled entirely by the state either in state research institutes, such as the State Health Institute, or under governmental control in research laboratories attached to the general managements of the various industries. Each national corporation reports annually to the general management under which it is organized all technical problems which arise during the year. The general management assembles the reports of all the corporations under its jurisdiction and forwards them to the State Planning Office, which farms out the research problems to the research laboratory of the appropriate general management. All research institutes attached to individual national corporations are in the process of liquidation.
2. The Military Technical Institute (VTU) is independent of the procedure described above, and conducts its own research on industrial as well as military problems. The VTU, located in Prague-Dejvice, includes departments for research in weapons, cartography, chemistry, photography, radiotelegraphy, electronics, light metals, metallography, analysis (sic), fuels and lubricants, textiles and tanning, material testing and measuring, construction of fortifications (sic), and health.* The Institute lacks experts trained in industry.
3. The state research institutes include the State Health Institute, the Agricultural Research Institute, the Forestry Research Institute, and the Bacteriological Research Institute, all located in Prague. Many of the research institutes of the general managements have not yet been organized. In spite of this, progress has been made in the past year especially in the field of finding substitutes for raw materials needed in Czech production which must be imported. Emphasis is being placed on research in plastics.
4. The following is a partial list of items on which Czech research and development programs are centered:
 - a. Organic chemicals:

Ethylene oxide**

Urea

Ethanolamine

Cyclic amines

Higher fatty alcohols

Furfural

Tetrahydrofurfural

Anhydride of maleic acid

Benzidine

Xylenol

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Vinylalcohol	Taurin, an amino substance
Aeridyn acid and its derivatives	Sikavit, a catalyst for accelerated oil drying
Amino and amido derivatives of fatty acids	Styrol, cyclic alcohol

- b. Synthetics, in addition to buna, synthetic gasoline and fibers and montan wax, which are being produced and undergoing improvement:

Leather substitutes from waste
Glyptal, a condensate of glycerine plus anhydride of phthalic acid
Synthetic glass from condensates of Styrol and polyvinyl alcohol
Fatty acids from paraffine wastes of hydrogenation process
Mersol, a chlor-sulpho derivative of paraffine, to be used as a soap substitute
Synthetic waxes other than lignite wax
Waterproof dyes
Solvents for synthetic fibers produced from fatty acid condensates
Lead substitutes for lining chemical apparatus
Wood substitutes from phenolformaldehyde and cresolformaldehyde
Concrete substitutes
Waterproof lacquers
Chlorine derivatives of buna.

- c. Critical items, heretofore imported from the West:

Aluminum-magnesium alloys
Magnetic alloys with high hysteresis numbers
Resistance alloys with negative temperature coefficients and melting points higher than that of Constantan
Vacuum tubes; Tesla has no vacuum tube research department. All such research is carried on by the VTU, the Technical University, and a research institute connected with the Czech Postal Services.
Ultrasonics, conducted at the former Bata Research Institute in Gottwaldov, the laboratories of PAL National Corporation and of Metra National Corporation in Blansko.
Emulsions, conducted at the laboratories of the Stalin Works and Svit.
Vulcanization with the aid of ultrashort waves
Hydrogenation catalysts and by-products at the Stalin Works.

25X1A * [REDACTED] Comment: The health department of the VTU is believed to be identical with the chemical department. See [REDACTED] 25X1A

** [REDACTED] Comment: These items are reported exactly as received. For more details on ethylene oxide from the same source, see [REDACTED]

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